





13. (Original) The method of Claim 11, wherein the data store is a data warehouse.

(a) enabling a server to store each data object in a data store, each data object in the data store being separately referenced in each of the plurality of data structures;

(b) when one data object is requested by a client, enabling the server to automatically choose one of the plurality of data structure[[s]] types best suited to fulfill the request and retrieve the one data object for the client;

(c) when a plurality of related data objects are requested by the client, enabling the server to automatically choose another one of the plurality of data structure[[s]] types best suited to locate and retrieve the plurality of related data objects for the client; and

(d) in response to a request to delete at least one data object from the client, enabling the server to automatically delete each reference to each deleted data object in the plurality of data structure[[s]] types such that each subsequent request for each deleted data object will be unsuccessful.

15. (Currently amended) ~~In client-server operating environment~~ The method of Claim 14, further comprising the actions of:

(a) enabling the server to associate a parent object with each data object, the parent object identifying each reference for the associated data object in the plurality of data structure[[s]] types;

and



a! (d) in response to a request to delete at least one data object by the network device, enabling the server array controller to automatically delete each reference to each deleted data object in the plurality of data structure[[s]] types such that each subsequent request for each deleted data object will be unsuccessful.

18. (Currently amended) ~~In the server array controller operating environment~~ The method of Claim 17, further comprising the actions of:

(a) enabling the server array controller to associate a parent object with each data object, the parent object identifying each reference for the associated data object in the plurality of data structure[[s]] types; and

(b) when at least one data object is deleted, enabling the server array controller to employ each parent object associated with each deleted data object to identify each reference for the deleted data object in the plurality of data structure[[s]] types such that each reference to the deleted data object is deleted.

19. (Currently amended) ~~The server array controller operating environment~~ method of Claim 17, wherein the plurality of data structure[[s]] types include Trie, Hash and List.

20. (Currently amended) ~~The server array controller operating environment~~ method of Claim 17, wherein the network device includes, router, client, cache, firewall and another server array controller.

21. (Currently amended) A computer readable medium readable by a computing system and encoding a computer program of instructions for executing a computer process for employing a plurality of data structure[[s]] types to optimize the retrieval of data over a network for an application on the computing system, comprising the actions of





